Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

AEE, YSTSD

No. 1st and Final bill
Division-Yelahanka Division
Bill Received No.....Dated.....Cash Book Voucher No.....dated.....
Scheduled Docket No.....
Date.....20.....
SBR No: 20/22-23
Date: 18/6/2022
Head of Account

Name of Work: Construction of RO Plants in Ward No.04 of Yelahanka Sattellite town Sub Division
Estimated Cost: 50.00 Lakhs
Job code No: 004-20-000036
Contractor and Full Address: Sri. Umesh N
Work Order No: BBMP/EE/YNK.D/EPMT-5/WO/63/2021-22 **Date:** 13/10/2021

YNK-DBR No.....
Date.....

Certified that the measurements were taken by me on 8/06/2022 and recorded in pages 496914 to 496939
Of measurement Book No. 49.D.D. and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurements were taken by me on 08/06/2022 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer
ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ.ಎ. ಬೆಂಗಳೂರು-೦೯

If Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being.....percent Rs.....
3) Deduct amount to be held in Balance
4) Deduct Payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied.
   Now made recovery of amount creditable to this/other work
   Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office Cash Book Voucher No.....
   date .....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within value
   materials supplied

Gross Amt = Rs 49 20 511-00
FSD = Rs 7500-00
CGST = Rs 43934-00
SGST = Rs 43934-00
IT = Rs 49206-00
LC = Rs 49206-00
CBF = Rs 4921-00
Royalty = Rs 34344-00
T.D. = Rs 232943-00
Net Amt = Rs 4687568-00

Contractor's Signature

Received Rs.....(in words)
By Cash and by adjustment of Payment as per memorandum.

Witnesses:

1.

2.

Dated.....Signature of Contractor

Paid by me by cheque No.....Dated

Cash Rs.....Dated

Initials of Officer Making Payment

(For use in the Office)

Audited & Admitted for Rs. 49 20 511-00
46 87 568-00 by Cheque
and Rs. 232943-00 by Adjustment

Accts Suptd.
Yelahanka Division
BBMP

Exe. Engineer
Yelahanka Division
BBMP

3-22
4-22
5-22

Name of work:Construction of RO Plants in Ward No.04 of Yelahanka Sattellite town Sub Division

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
1	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications.Complete as per the Direction of Engineer Incharge of the Work	Cum	85.29	402.53	34331.79	–	–	84.90	402.53	34174.80	84.90	34174.80
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Complete as per the Direction of Engineer Incharge of the Work	Cum	16.18	5814.36	94076.35	–	–	16.16	5814.36	93960.06	16.16	93960.06
3	Providing and constructing granite /trap/ baslat size stone masonry in foundation with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications .Complete as per the Direction of Engineer Incharge of the Work	Cum	47.80	4973.35	237726.13	–	–	47.80	4973.35	237726.13	47.80	237726.13
4	Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications.Complete as per the Direction of Engineer Incharge of the Work	Sqm	20.68	163.92	3389.87	–	–	15.24	163.92	2498.14	15.24	2498.14

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
5	Filling avalalble excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification.Complete as per the Direction of Engineer Incharge of the Work	Cum	85.29	214.91	18329.68	–	–	84.90	214.91	18245.86	84.90	18245.86
6	KSRB 4.2.7: Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.Complete as per the Direction of Engineer Incharge of the Work	Cum	23.47	6866.58	161158.64	–	–	23.47	6866.58	161158.63	23.47	161158.63
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Complete as per the Direction of Engineer Incharge of the Work	Cum	1.27	6081.86	7723.97	–	–	1.26	6081.86	7663.14	1.26	7663.14

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
8	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500**.Complete as per the Direction of Engineer Incharge of the Work	Tonne	2.35	83405.08	196001.94	–	–	2.35	83405.08	196001.94	2.35	196001.94
9	Providing and removing centering shuttering strutting propping etc., and removal of form work for columns, pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour complete as per specification.Complete as per the Direction of Engineer Incharge of the Work	Sqm	66.24	487.56	32295.98	–	–	66.24	487.56	32295.97	66.24	32295.97
10	Providing and removing centering shuttering strutting propping etc., and removal of form work for sides and soffits of beams beam houchings cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification.Complete as per the Direction of Engineer Incharge of the Work	Sqm	52.80	312.21	16484.69	–	–	52.80	312.21	16484.69	52.80	16484.69
11	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs,landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification.Complete as per the Direction of Engineer Incharge of the Work	Sqm	46.20	470.45	21734.79	–	–	46.20	470.45	21734.79	46.20	21734.79

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
12	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of all materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications.(400x150x200mm),Complete as per the Direction of Engineer Incharge of the Work	Sqm	94.62	996.67	94304.92	–	–	94.62	996.67	94304.92	94.62	94304.92
13	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,. Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications,Complete as per the Direction of Engineer Incharge of the Work	Sqm	152.09	321.10	48836.10	–	–	146.83	321.10	47147.11	146.83	47147.11
14	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications ,Complete as per the Direction of Engineer Incharge of the Work	Sqm	95.75	305.99	29298.55	–	–	88.81	305.99	27174.97	88.81	27174.97
15	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .Complete as per the Direction of Engineer Incharge of the Work	Sqm	46.20	258.52	11943.63	–	–	42.03	258.52	10865.60	42.03	10865.60

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
16	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies terraces etc., consisting of following applications a) applying and grouting a slurry coat of neat cement using 2 75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b)laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admix with propreatory water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c)after two days of proper curing applying a second coat of cement slurry admix with preprietoray water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with preprietary water proofing compond wall finally finishing the surface with travel and neat cement slurry and making of 300 x 300 mm square e the whole terrace so finished shall be flooded with water for a minimum period of two weeks curing and final	Sqm	46.20	1113.81	51458.03	–	–	46.19	1113.81	51446.88	46.19	51446.88
17	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.Complete as per the Direction of Engineer Incharge of the Work	Sqm	141 95	83.40	11838.63	–	–	130.84	83.40	10912.06	130.84	10912.06

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
18	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer,Complete as per the Direction of Engineer Incharge of the Work	Sqm	141.95	96.23	13659.85	–	–	130.84	96.23	12590.73	130.84	12590.73
19	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications,Complete as per the Direction of Engineer Incharge of the Work	Sqm	152.09	109.06	16586.94	–	–	146.83	109.06	16013.28	146.83	16013.28
20	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 900mm,Complete as per the Direction of Engineer Incharge of the Work	Sqm	57.02	2583.65	147319.73	–	–	57.01	2583.65	147293.69	57.01	147293.89

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
21	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips; suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m,Complete as per the Direction of Engineer Incharge of the Work	Sqm	12.50	2787.40	34842.50	–	–	12.50	2787.40	34842.50	12.50	34842.50
22	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting , materials, labour, HOM of machinery complete as per specifications.Complete as per the Direction of Engineer Incharge of the Work	Mtr	5.00	515.35	2576.75	–	–	5.00	515.35	2576.75	5.00	2576.75

Sr No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
23	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials, the assembled frame fitted with the corner angles,	Sqm	12.50	6555.27	81940.88	-	-	12.50	6555.27	81940.88	12.50	81940.88
24	Water purification plants: Supplying, Installation andCommissioning of automatic Water purification plant (RO+UF)with all accessories piping, product water tank on single phase power supply on Turnkey/EPC Basis as per the enclosed detailed Technical Specifications including cost of material, loading and unloading and as directed by the Engineer in charge.1000 LPH SS,Complete as per the Direction of Engineer Incharge of the Work	No's	2.00	407880.00	815760.00	-	-	2.00	407880.00	815760.00	2.00	815760.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
25	Additional price for installation of Ultra Voilet System,Complete as per the Direction of Engineer Incharge of the Work	No's	2.00	10197.00	20394.00	–	–	2.00	10197.00	20394.00	2.00	20394.00
26	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. **(For 1000 litre capacity)**,Complete as per the Direction of Engineer Incharge of the Work	No's	2.00	7300.50	14601.00	–	–	2.00	7300.50	14601.00	2.00	14601.00
27	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **20mm nominal OD pipes**.Complete as per the Direction of Engineer Incharge of the Work	Mtr	60.00	251.26	15075.60	–	–	60.00	251.26	15075.60	60.00	15075.60

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
28	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **25mm nominal OD pipes,**Complete as per the Direction of Engineer Incharge of the Work	Mtr	60.00	313.28	18796.80	–	–	60.00	313.28	18796.80	60.00	18796.80
29	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **32mm nominal OD pipes,**Complete as per the Direction of Engineer Incharge of the Work	Mtr	50.00	399.88	19994.00	–	–	50.00	399.88	19994.00	50.00	19994.00
30	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.**19/20mm dia 2mm thick,**Complete as per the Direction of Engineer Incharge of the Work	Mtr	80.00	49.50	3960.00	–	–	73.00	49.50	3613.50	73.00	3613.50

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
31	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments , **1.5 Sqmm**,Complete as per the Direction of Engineer Incharge of the Work	Mtr	140.00	20.30	2842.00	–	–	128.10	20.30	2600.43	128.10	2600.43
32	2.5Sqmm	Mtr	100.00	31.68	3168.00	–	–	99.00	31.68	3136.32	99.00	3136.32
33	4.0Sqmm	Mtr	40.00	44.55	1782.00	–	–	17.50	44.55	779.63	17.50	779.63
34	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.**Short point upto 3Mtr from tapping point to out let via switch box**,Complete as per the Direction of Engineer Incharge of the Work	Per Point	6.00	158.40	950.40	–	–	5.00	158.40	792.00	5.00	792.00
35	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Per Point	4.00	247.50	990.00	–	–	4.00	247.50	990.00	4.00	990.00
36	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Per Point	2.00	371.25	742.50	–	–	2.00	371.25	742.50	2.00	742.50
37	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall. **1-3Way** ,Complete as per the Direction of Engineer Incharge of the Work	No's	6.00	94.05	564.30	–	–	6.00	94.05	564.30	6.00	564.30
38	16-18Way	No's	4.00	178.20	712.80	–	–	4.00	178.20	712.80	4.00	712.80

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
39	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. **1 to 3 Module**,Complete as per the Direction of Engineer Incharge of the Work	No's	6.00	108.90	653.40	–	–	6.00	108.90	653.40	6.00	653.40
40	16-18 Module	No's	4.00	267.30	1069.20	–	–	4.00	267.30	1069.20	4.00	1069.20
41	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way Switch,Complete as per the Direction of Engineer Incharge of the Work	Each	4.00	69.30	277.20	–	–	4.00	69.30	277.20	4.00	277.20
42	6Amps 3way socket	Each	4.00	103.95	415.80	–	–	4.00	103.95	415.80	4.00	415.80
43	16Amps one way switch	Each	4.00	113.85	455.40	–	–	4.00	113.85	455.40	4.00	455.40
44	6/16Amps universal socket	Each	6.00	160.38	962.28	–	–	5.00	160.38	801.90	5.00	801.90
45	1000-1200Watts Dimmer	Each	10.00	544.50	5445.00	–	–	9.00	544.50	4900.50	9.00	4900.50
46	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 Amps DP,Complete as per the Direction of Engineer Incharge of the Work	Each	4.00	899.91	3599.64	–	–	4.00	899.91	3599.64	4.00	3599.64
47	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia,Complete as per the Direction of Engineer Incharge of the Work	No's	4.00	2969.70	11878.80	–	–	4.00	2969.70	11878.80	4.00	11878.80

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
48	Supplying & fixing of Porcelain fuse channel with cut outon existing wooden/panel using necessary nuts, bolts and washers. 16Amps,Complete as per the Direction of Engineer Incharge of the Work	Each	2.00	115.83	231.66	–	–	2.00	115.83	231.66	2.00	231.66
49	Supplying & Fixing retrofit type -PL- LED lamp..... W LED Linear source with CCT 6500 degree K, CRI> 70%. Efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic diver integrated in the system, with PF > 0.95, Power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPBI accredited laboratory with 2years Warranty against any manufacturing defect working under standard electrical.18-20 Watts.Complete as per the Direction of Engineer Incharge of the Work	No's	6.00	420.75	2524.50	–	–	6.00	420.75	2524.50	6.00	2524.50
50	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders,Complete as per the Direction of Engineer Incharge of the Work	No's	6.00	108.90	653.40	–	–	6.00	108.90	653.40	6.00	653.40

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
48	Supplying & fixing of Porcelain fuse channel with cut outon existing wooden/panel using necessary nuts, bolts and washers. 16Amps,Complete as per the Direction of Engineer Incharge of the Work	Each	2.00	115.83	231.66	–	–	2.00	115.83	231.66	2.00	231.66
49	Supplying & Fixing retrofit type -PL- LED lamp..... W LED Linear source with CCT 6500 degree K, CRI> 70%. Efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic diver integrated in the system, with PF > 0.95, Power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPBI accredited laboratory with 2years Warranty against any manufacturing defect working under standard electrical.18-20 Watts.Complete as per the Direction of Engineer Incharge of the Work	No's	6.00	420.75	2524.50	–	–	6.00	420.75	2524.50	6.00	2524.50
50	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders,Complete as per the Direction of Engineer Incharge of the Work	No's	6.00	108.90	653.40	–	–	6.00	108.90	653.40	6.00	653.40

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
51	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc,Complete as per the Direction of Engineer Incharge of the Work	Each	2.00	3842.23	7684.46	_	_	2.00	3842.23	7684.46	2.00	7684.46
52	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 0.00 to 50.00 Mtr.Complete as per the Direction of Engineer Incharge of the Work	Mtr	100.00	353.84	35384.00	_	_	100.00	353.84	35384.00	100.00	35384.00
53	50.00 to 100.00 Mtr.	Mtr	100.00	450.71	45071.00	_	_	100.00	450.71	45071.00	100.00	45071.00
54	100.00 to 150.00 Mtr.	Mtr	100.00	464.98	46498.00	_	_	100.00	464.98	46498.00	100.00	46498.00
55	150.00 to 200.00 Mtr.	Mtr	100.00	546.56	54656.00	_	_	100.00	546.56	54656.00	100.00	54656.00
56	200.00 to 250.00 Mtr.	Mtr	100.00	646.49	64649.00	_	_	100.00	646.49	64649.00	100.00	64649.00
57	250.00 to 300.00 Mtr.	Mtr	100.00	713.79	71379.00	_	_	100.00	713.79	71379.00	100.00	71379.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
58	300.00 to 350.00 Mtr.	Mtr	100.00	841.25	84125.00	–	–	100.00	841.25	84125.00	100.00	84125.00
59	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes. All shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.(exclusive of all taxes and duties) prices include Collar-Medium duty. 175mm dia x 5.4mm thick,Complete as per the Direction of Engineer Incharge of the Work	Rmt	100.00	1351.10	135110.00	–	–	100.00	1351.10	135110.00	100.00	135110.00
60	Providing and fixing 250mm dia PVC pipe and as per specification and directions. Complete as per the Direction of Engineer Incharge of the Work	Rmt	12.00	1089.00	13068.00	–	–	12.00	1089.00	13068.00	12.00	13068.00
61	Providing and laying at site of work175mm thick MS casing caps as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge ,Complete as per the Direction of Engineer Incharge of the Work	Each	2.00	101.97	203.94	–	–	2.00	101.97	203.94	2.00	203.94

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
62	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz 380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings **15HP/11KW 35stage** ,Complete as per the Direction of Engineer Incharge of the Work	No's	2.00	71069.57	142139.14	–	–	2.00	71069.57	142139.14	2.00	142139.14
63	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe,Complete as per the Direction of Engineer Incharge of the Work	Rmt	600.00	537.29	322374.00	–	–	600.00	537.29	322374.00	600.00	322374.00
64	Supply of 50mm M.S collars ,Complete as per the Direction of Engineer Incharge of the Work	Each	100.00	209.88	20988.00	–	–	100.00	209.88	20988.00	100.00	20988.00
65	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS: 8130-1984. and virgin grade PVC Sheated Suitable for working voltage upto 1100 Volts as per IS:694:1990. 3C X 6.0Sq mm,Complete as per the Direction of Engineer Incharge of the Work	Mtr	1280.00	209.04	267571.20	–	–	1280.00	209.04	267571.20	1280.00	267571.20

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
66	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR),Complete as per the Direction of Engineer Incharge of the Work	No's	2.00	14652.00	29304.00	–	–	2.00	14652.00	29304.00	2.00	29304.00
67	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm ,Complete as per the Direction of Engineer Incharge of the Work	Sqcm	44000.00	0.41	18040.00	–	–	44000.00	0.41	18040.00	44000.00	18040.00
68	Providing & Fixing of clamps set and borewell cap to the pump (MR) ,Complete as per the Direction of Engineer Incharge of the Work	Per Set	2.00	1888.92	3777.84	–	–	2.00	1888.92	3777.84	2.00	3777.84

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
69	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments,Size- 50mm . Complete as per the Direction of Engineer Incharge of the Work	No	2.00	1163.25	2326.50	–	–	2.00	1163.25	2326.50	2.00	2326.50
70	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments,Size- 50mm ,Complete as per the Direction of Engineer Incharge of the Work	No	2.00	1178.10	2356.20	–	–	2.00	1178.10	2356.20	2.00	2356.20
71	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI bend confirming to IS 1239 II, 1991 with latest amendments if any. Complete as per the Direction of Engineer Incharge of the Work	No	2.00	232.65	465.30	–	–	2.00	232.65	465.30	2.00	465.30
72	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI union confirming to IS 1239-II, 1991 with latest amendments if any. Complete as per the Direction of Engineer Incharge of the Work	No	2.00	173.25	346.50	–	–	2.00	173.25	346.50	2.00	346.50
73	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any.Complete as per the Direction of Engineer Incharge of the Work	No	2.00	173.25	346.50	–	–	2.00	173.25	346.50	2.00	346.50
74	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.Complete as per the Direction of Engineer Incharge of the Work	Job	2.00	5761.31	11522.62	–	–	2.00	5761.31	11522.62	2.00	11522.62

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
75	Labour charges for erection of indoor type panel board and meter board units with all necessary materials and labour tools and equipments including cement concrete for foundation/bed etc,complete as per specification, with testing of as per instructions of engineer incharge of work. Complete as per the Direction of Engineer Incharge of the Work	No	2.00	1149.20	2298.40	–	–	2.00	1149.20	2298.40	2.00	2298.40
76	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required confirming to IEC 60898, 40 Amps DP,Complete as per the Direction of Engineer Incharge of the Work	Each	2.00	1362.32	2724.64	–	–	2.00	1362.32	2724.64	2.00	2724.64
77	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554),Complete as per the Direction of Engineer Incharge of the Work	Mtr	70.00	152.96	10707.20	–	–	70.00	152.96	10707.20	70.00	10707.20
78	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces,Complete as per the Direction of Engineer Incharge of the Work	Mtr	60.00	77.50	4650.00	–	–	60.00	77.50	4650.00	60.00	4650.00
79	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm ,Complete as per the Direction of Engineer Incharge of the Work	Mtr	6.00	341.60	2049.60	–	–	6.00	341.60	2049.60	6.00	2049.60

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
80	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia. Complete as per the Direction of Engineer Incharge of the Work	Job	2.00	3704.57	7409.14	–	–	2.00	3704.57	7409.14	2.00	7409.14
81	Providing,Supplying and fixing LT cast iron potheads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3½x6 Sqm,Complete as per the Direction of Engineer Incharge of the Work	No	2.00	506.79	1013.58	–	–	2.00	506.79	1013.58	2.00	1013.58
82	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834, 3phase 400/440 volts grade,for power Factor improvement of roating machinery like indution motor,Complete as per the Direction of Engineer Incharge of the Work	KVAR	2.00	407.88	815.76	–	–	2.00	407.88	815.76	2.00	815.76
83	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches ,Complete as per the Direction of Engineer Incharge of the Work	Each	2.00	297.75	595.50	–	–	2.00	297.75	595.50	2.00	595.50
84	KPTCL Deposit charges	L/S	2.00	9900.00	19800.00	–	–	2.00	9900.00	19800.00	2.00	19800.00
85	Borewell registration charges per Rs 1000 each for BWSSB	Each	2.00	990.00	1980.00	–	–	2.00	990.00	1980.00	2.00	1980.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
86	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinery soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Complete as per the Direction of Engineer Incharge of the Work	Cum	202.50	313.77	63538.43	–	–	202.50	313.77	63538.43	202.50	63538.43
87	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete (external work) **50mm nominal OD pipes**,Complete as per the Direction of Engineer Incharge of the Work	Mtr	300.00	453 34	136002.00	–	–	300.00	453.34	136002.00	300.00	136002.00
88	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Complete as per the Direction of Engineer Incharge of the Work	Cum	33.75	1981 27	66867.87	–	–	33.75	1981.27	66867.86	33.75	66867.86

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
89	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. Complete as per the Direction of Engineer Incharge of the Work	Cum	33.75	5623.78	189802.58	–	–	33.75	5623.78	189802.58	33.75	189802.58
90	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum),Complete as per the Direction of Engineer	Cum	33.75	5577.93	188255.14	–	–	33.75	5577.93	188255.14	33.75	188255.14

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate In Rs.	Amount	Qty	Amount
91	Filling available earth around pipe lines cable in layers not exceeding 20cms, in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost all labour complete as per specifications,Complete as per the Direction of Engineer Incharge of the Work	Cum	111.38	210.93	23493.39	–	–	111.38	210.93	23493.38	111.38	23493.38
	Total				4417421.00					4406458.00		4406458.00
	GST Charges 12%				530090.00					528775.00		528775.00
	Grand Total				4947511.00					4935233.00		4935233.00

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

TQ. 49,20,511

48 48 001-00

Assistant Engineer
Ward No.04

02/06/2022

Asst. Executive Engineer,
Yelahanka Satellite town Sub division